
NCR ID: ECSed38372 Status: VERIFIED Submitted: 030926
NCR Class: OPERATIONS Project: OPS_HEG Enclosures: 7

NCR TITLE...
Datapool HEG may be using wrong sphere for MODIS Datasets

<p>PROBLEM INFORMATION...</p> <p>Build Name[*]: Drop 6A.08+</p> <p>Test Site[*]: EDC DAAC</p> <p>Detection Method[*]: Customer Use</p> <p>Detected-In-Phase[*]: DAAC Activity</p> <p>Test Case ID:</p> <p>Machine Name:</p> <p>Severity (1=Showstopper)[*]: 2</p> <p>Priority: 014 Priority Date: 200310</p> <p>High Priority: 004 Mode [*]: TS1</p> <p>Trouble Ticket: SMC000000006086</p> <p>DAAC Trouble Ticket: EDC000000014108</p> <p>Submitter: evans</p> <p>ANALYSIS INFORMATION...</p> <p>Evaluate Engineer: kcarr</p> <p>Assigned To: cpradera</p> <p>Analysis Due Date(yymmdd): 031107</p>	<p>COST ANALYSIS INFORMATION...</p> <p>Cost[*]: MEDIUM</p> <p>Estimated Fix Time(hrs): 80</p> <p>Estimated Fix Date(yymmdd): 040109</p> <p>Est Num_SLOC: 25</p> <p>Revised Fix Time (Hrs): 80</p> <p>Revised Fix Date (yymmdd): 040109</p> <p>TO BE FIXED INFORMATION...</p> <p>Problem type[*]: source code</p> <p>Recommended change[*]: source code</p> <p>Implement Due Date (yymmdd): 040109</p> <p>Eng SW Release Name: TBD</p> <p>Eng SW Release Date (yymmdd):</p> <p>Quality of NCR: 1</p> <p>Workaround Available? N</p>
--	--

Page 1/2

NCR Class: OPERATIONS Project: OPS_HEG

<p>MERGE INFORMATION..</p> <p>Resolution[*]: source code</p> <p>Resolved by: cpradera</p> <p>Iteration: Drop 6A.08</p> <p>Indicate_SLOC[*]: Added</p> <p>Num_SLOC: 2</p> <p>Fixing time (hrs): 80</p> <p>Affect CSCI: HEG</p> <p>Merge Build Id: M040108004</p> <p>Documentation affected (Y/N)? N</p> <p>Fix Date (yymmdd): 040109</p> <p>Patch Release Name: TBD</p> <p>Patch Release Date (yymmdd):</p> <p>TE SW Release Name: TBD</p> <p>TE SW Release Date (yymmdd):</p>	<p>VERIFICATION INFORMATION...</p> <p>Test Engineer: cpradera</p> <p>Verification Due:</p> <p>Verification results(P/F)? P</p> <p>Elapsed verification time (hrs): 1</p> <p>Attachments (Y/N)? N</p> <p>Ver. Build ID[*]: Drop 6A.08+</p> <p>Verification Machine: f3ins01</p> <p>Verification Site[*]: EDF</p>
---	---

***** Problem (Added 030926 by ocoates) *****

Please describe the problem you are experiencing below, including what you did, what you expected to happen, and what actually happened:

A discrepancy was noticed while reviewing the datapool resample.log. In the Input image and reprojection info: the correct sphere 6371007.18 is reported. However in the SINUSOIDAL PROJECTION PARAMETERS: the incorrect 6370997.000000 is reported. We are unsure which value is

04-0092_ncrs
being used to project the data. Below are the sections from the
resample.log. We will continue to investigate this problem.

Input image and reprojection info

input_filename:

/datapool/TS1/user/MOLT/MOD09A1.004/2003.06.26//MOD09A1.A2003177.h11v05.004.
2003194092334.hdf
output_filename:

/datapool/TS1/user/downloads/0000000000000078/MOD09A1_A2003177_h11_MOD_Grid_
500m_Surface_Reflectance_sur_
refl_b01_85_1.tif

object_name: MOD_Grid_500m_Surface_Reflectance

field_name: sur_refl_b01

input_filetype: HDF-EOS

output_filetype: GEOTIFF

input_projection_type: SIN

output_projection_type: UTM

output_zone_code: 0

output_ellipsoid: WGS84

resampling_type: NN

input projection parameters: 6371007.18 0.00 0.00 0.00 0.00 0.00
0.00 0.00

0.00 0.00 0.00 0.00 0.00 0.00 0.00

output projection parameters: -80.33 35.00 0.00 0.00 0.00 0.00 0.00
0.00

0.00 0.00 0.00 0.00 0.00 0.00 0.00

SINUSOIDAL PROJECTION PARAMETERS:

Radius of Sphere: 6370997.000000 meters

Longitude of Center: 0.000000 degrees

False Easting: 0.000000 meters

False Northing: 0.000000 meters

UNIVERSAL TRANSVERSE MERCATOR (UTM) PROJECTION PARAMETERS:

Zone: 17

Semi-Major Axis of Ellipsoid: 6378137.000000 meters

Semi-Minor Axis of Ellipsoid: 6356752.314245 meters

Trouble Tickets (Status Report)

Scale Factor at C. Meridian: 0.999600

Longitude of Central Meridian: -81.000000 degrees

04-0092_ncrs

LP DAAC POC's: Gayla Evans 605.594.6523 gevans@usgs.gov and Carolyn

Gacke 605.594.6822 cgacke@usgs.gov

Note: Gayla will be out the rest of this week (Thurs & Fri).

Cid Prideras is aware of the problem.

Detailed Resolution Log :

Submitter ID : evans

Submitter Impact : Medium

Submitter Name : Gayla Evans

Submitter Phone : 605-594-6523

Submitter eMail : gevans@usgs.gov

Closing Code :

Related CCR :

***** Updated Info & Impact Statement (Added 031017 by burck) *****

Jane,

Could you update the TT EDC14108 / ECSed38372 with the following information and impact statement?

Thanks,

Gayla

Carolyn talked with Gail Schmidt, MRT developer, who corrected this problem in the MRT code, after the code was delivered to the HEG group July 2001.

I found this note in the MRT Release Notes:

Version 3.0 (December 2002)

13. The previous versions of the MRT were not able to handle sphere radius values other than 6370997.0 (radius of sphere 19) for sphere-based projections while implementing datum conversions. This was hard-coded in GCTP. Version 3.0 of the MRT will support 6371007.181 as a sphere radius value in the MODIS Sinusoidal data.

IMPACT: No DP-HEG MODIS datasets can be released until the fix is in place.

Gayla Evans
Science Software Engineer
Science Application International Corporation(SAIC)
USGS/EROS Data Center
Sioux Falls, SD 57198
Phone: 605-594-6523
gevans@usgs.gov

***** IPT (Modified 040116 by kcarr) *****

1/16/03: Merged 1/12.

12/12/03: Completed coding. waiting for Toolkit coding changes (NCR 38771).

will be included in the Jan Heg patch.

***** Analysis (Added 031212 by cpradera) *****
Please describe your Analysis:

Fri Dec 12 18:30:59 EST 2003

The program "resample" does not use the correct datum.
It defaults to the standard sphere rather than use the MODIS sphere.
The GCTP library does not allow use of the MODIS sphere and it
will need modifications. Once the GCTP library is
modified, then the "resample" code can be modified to refer
to the correct datum (MODIS sphere).
The "resample" code has a complicated arrangement of calling
the GCTP library, so it will have to be traced carefully
to make sure there is not some unusual side effects that
occur once the default setting is changed.
Cid Praderas

***** Resolution (Added 040112 by cpradera) *****
Please describe your resolution to this problem:

Mon Jan 12 14:25:32 EST 2004
The MODIS datum code was passed to the GCTP library
instead of the default sphere code.
Cid Praderas

***** Previous Merge Build IDs (Added 040112 by cpradera) *****
Please enter any related Merge Build ID(s) information:

1)M040108003

2)M040108004

3)

4)

***** Verification (Added 040208 by jcorbett) *****
Please describe your verification:
Ran MOD10A1.004 ganules with HEG. Resample log lists Radius of Sphere =
6371007.181000 in DEV04 runs #128, 129 and 138.

04-0092_ncrs

***** History *****

xddts 030926 151348 Submitted to OPS_HEG by ocoates
 xddts 030926 151423 Enclosure "Problem" added by ocoates
 xddts 030926 151425 Fields modified by ocoates
 xddts 030929 153223 Fields modified by ocoates
 batchbug 031008 014809 Priority changed to 35 by ddts
 batchbug 031015 113446 Priority changed to 32 by ddts
 batchbug 031015 123846 Priority changed to 35 by ddts
 webddts 031017 140231 Enclosure "Updated Info & Impact Statement" added by burck
 batchbug 031022 174346 Priority changed to 70 by ddts
 batchbug 031029 182302 Priority changed to 23 by ddts
 xddts 031029 190142 Enclosure "IPT HISTORY" added by ddts
 xddts 031029 190207 Enclosure "IPT" added by ddts
 xddts 031031 154447 N -> A (Assign-Eval to cpradera) by kcarr
 xddts 031103 102131 Enclosure "IPT" edited by cpradera
 batchbug 031106 082040 Priority changed to 21 by ddts
 xddts 031110 095817 Enclosure "IPT" edited by kcarr
 xddts 031110 135522 Enclosure "IPT" edited by jsmith-c
 batchbug 031112 165857 Priority changed to 15 by ddts
 batchbug 031119 185913 Priority changed to 10 by ddts
 xddts 031121 135628 Enclosure "IPT" edited by kcarr
 xddts 031123 203223 Fields modified by jsmith-c
 xddts 031123 203607 Enclosure "IPT" edited by jsmith-c
 batchbug 031203 215633 Priority changed to 9 by ddts
 xddts 031207 181947 Enclosure "IPT" edited by jsmith-c
 batchbug 031210 195152 Priority changed to 8 by ddts
 xddts 031212 184527 Enclosure "Analysis" added by cpradera
 xddts 031212 184527 A -> B (Cost-Analyzed) by cpradera
 xddts 031212 184949 Enclosure "IPT" edited by cpradera
 xddts 031213 164051 Enclosure "IPT" edited by jsmith-c
 xddts 031213 175308 Enclosure "IPT HISTORY" deleted by jsmith-c
 batchbug 031216 151403 Priority changed to 4 by ddts
 xddts 040108 132446 B -> R (Assign-Implement) by cpradera
 batchbug 040108 201456 Priority changed to 15 by ddts
 xddts 040112 142711 Enclosure Resolution added by cpradera
 xddts 040112 142736 Enclosure Previous Merge Build IDs added by cpradera
 xddts 040112 142736 R -> M (Merged) by cpradera
 batchbug 040115 204202 Priority changed to 14 by ddts
 xddts 040116 122641 Enclosure "IPT" edited by kcarr
 xddts 040116 131225 M -> T (In-Test) by cpradera
 webddts 040208 133032 Enclosure "Verification" added by jcorbett
 webddts 040208 133032 T -> V (Verified) by jcorbett

□

NCR ID: ECSed38637 Status: VERIFIED Submitted: 031030
 NCR Class: OPERATIONS Project: OPS_HEG Enclosures: 6

NCR TITLE...

DP-HEG: Need to produce external metadata file for Tiff output

PROBLEM INFORMATION...

Build Name[*]: Drop 6A.08
 Test Site[*]: EDC DAAC
 Detection Method[*]: Customer Use
 Detected-In-Phase[*]: DAAC Activity
 Test Case ID:
 Machine Name:

COST ANALYSIS INFORMATION...

Cost[*]: LOW
 Estimated Fix Time(hrs): 80
 Estimated Fix Date(yymmdd): 031231
 Est Num_SLOC: 500
 Revised Fix Time (Hrs): 80
 Revised Fix Date (yymmdd): 040109

04-0092_ncrs

Severity (1=Showstopper)[*]: 5
Priority: 012 Priority Date: 031105
High Priority: 012 Mode [*]: OPS
Trouble Ticket: SMC000000006226
DAAC Trouble Ticket: EDC000000014217
Submitter: evans
ANALYSIS INFORMATION...
Evaluate Engineer: kcarr
Assigned To: ataaheri
Analysis Due Date(yymmdd): 031205

TO BE FIXED INFORMATION...
Problem type[*]: source code
Recommended change[*]: source code
Implement Due Date (yymmdd):
Eng SW Release Name: TBD
Eng SW Release Date (yymmdd):
Quality of NCR: 4
Workaround Available? N

Page 1/2

NCR Class: OPERATIONS Project: OPS_HEG

MERGE INFORMATION..
Resolution[*]: source code
Resolved by: ataaheri
Iteration: Drop 6A.08+
Indicate_SLOC[*]: Combination
Num_SLOC: 542
Fixing time (hrs): 80
Affect CSCI: HEG
Merge Build Id: M031224002
Documentation affected (Y/N)? N
Fix Date (yymmdd): 031224
Patch Release Name: TBD
Patch Release Date (yymmdd):
TE SW Release Name: TBD
TE SW Release Date (yymmdd):

VERIFICATION INFORMATION...
Test Engineer: ataaheri
Verification Due:
Verification results(P/F)? P
Elapsed verification time (hrs): 1
Attachments (Y/N)? N
Ver. Build ID[*]: Drop 6A.08+
Verification Machine: f3ins01
Verification Site[*]: EDF

Page 2/2

***** Problem (Modified 031030 by ocoates) *****
Long Description :

The DP-HEG TIFF format has two metadata issues.

1. The internal TIFF tags must accurately describe the output data produced.
2. The accompanying met files must accurately describe the output data produced and be consistent with the TIFF tags.

The GeoTiff files need to be accompanied either by an output xml or a metadata file, which carries along information that is valuable to the end-user. This could either be one file for the whole data set or one file for

every band of GeoTiff. (For example, Landsat-7 uses one metadata file, which contains general acquisition information, sensor specific information, and also band specific information.)

GENERAL INFORMATION NEEDED:

- The following attributes and their values (that can be extracted from the xml file) need to be added: CalendarDate(ASTER), TimeOfDay(ASTER), RangeBeginningDate(MODIS), RangeBeginningTime(MODIS), RangeEndingDate(MODIS), RangeEndingTime(MODIS), ASTERMapOrientationAngle, Solar_Elevation_Angle, Solar_Azimuth_Angle, ASTERVNIRPointingAngle,

ASTERSWIRPointingAngle, and ASTERTIRPointingAngle.

- Output projection, output projection parameters, resampling method and the datum are needed.
- The output Zone is needed for the UTM projection.

SENSOR-SPECIFIC REQUIREMENTS NEEDED:

- Output Corner Coordinates, output lines and samples, resampling method and output pixel size are needed. In the case of ASTER, these would need to be specific for each sensor: VNIR, SWIR, and TIR.

The output directory presently contains an xml file, which is carried over from the input HDF data. The essential metadata, described above needs to be pulled from this file and subsequently, it needs to be removed since it references the old projection information.

IMPACT: The LPDAAC considers this an essential pre-requisite (i.e. show-stopper) before any of the MODIS or ASTER data sets are released through the Data Pool HEG.

LP DAAC POC: Gayla Evans
ocoates 10/29/03 12:14:01
Ticket deferred - Thurs., 10/30/03 - Being reviewed by Kathy Carr.
<< end of description >>

SUBMITTER INFO:
Submitter Name: Gayla Evans
Submitter Email: gevas@usgs.gov
Submitter Phone: 605-594-6523

***** IPT (Modified 031222 by jsmith-c) *****
12/22/03: Coding 90% complete. will be done for Jan patch.

***** Analysis (Added 031202 by ataaheri) *****
Please describe your Analysis:

Currently only when HDFEOS output file is requested we create *.met file. We shall need to modify the code so that when tif output file is requested, we force the tools to write metadata to intermediate hdfEOS files, thus creating *.met file.

***** Resolution (Added 040106 by ataaheri) *****
Please describe your resolution to this problem:

Modified all HEG tools (active in DAAC) to produce a *.met file when a
Page 7

tiff output requested.

The files modified are:

```
/ecs/formal/HEG/data/MCF_file
/ecs/formal/HEG/gdtif/gdtif.c
/ecs/formal/HEG/gdtif/gdtif.h
/ecs/formal/HEG/gdtif/write_metadata_gd.c
/ecs/formal/HEG/gridstitch/write_metadata.c
/ecs/formal/HEG/resample/src/addmeta.c
/ecs/formal/HEG/resample/src/main.c
/ecs/formal/HEG/resample/src/write_metadata.c
/ecs/formal/HEG/swtif/abe_sw.tif7.c
/ecs/formal/HEG/swtif/write_metadata.c
```

***** Previous Merge Build IDs (Added 040106 by ataaheri) *****
Please enter any related Merge Build ID(s) information:

1)M031224002

2)M031224003

3)

4)

***** Verification (Added 040209 by jcorbett) *****
Please describe your verification:

Correct attributes for MISR, ASTER and MODIS data produced for tif.met
file. New NCR for ASTER. See 39280.

***** History *****

```
bugs      1010629 000000 Submitted by Remedy via ddts@eos.hitc.com
xddts     031030 135941 Fields modified by ocoates
xddts     031030 140108 Enclosure "Problem" edited by ocoates
xddts     031031 160647 Fields modified by kcarr
batchbug  031106 082028 Priority changed to 20 by ddts
xddts     031106 083252 Enclosure "IPT" added by dstepp
xddts     031110 120928 Enclosure "IPT" edited by kcarr
xddts     031110 125601 Enclosure "IPT" edited by jsmith-c
xddts     031110 125628 N -> A (Assign-Eval to kcarr) by jsmith-c
batchbug  031112 165948 Priority changed to 19 by ddts
xddts     031119 203117 Fields modified by dstepp
xddts     031123 213231 Enclosure "IPT" edited by jsmith-c
xddts     031201 141853 A -> A (Assign-Eval to ataaheri) by kcarr
xddts     031202 131119 Enclosure "Analysis" added by ataaheri
xddts     031202 131119 A -> B (Cost-Analyzed) by ataaheri
xddts     031202 140004 B -> R (Assign-Implement) by ataaheri
batchbug  031203 215932 Priority changed to 22 by ddts
batchbug  031210 195312 Priority changed to 15 by ddts
xddts     031215 072928 Enclosure "IPT" edited by ataaheri
```


04-0092_ncrs
batchbug 031216 151547 Priority changed to 12 by ddts
xddts 031219 120432 Enclosure "IPT" edited by ataaheri
xddts 031222 143005 Enclosure "IPT" edited by jsmith-c
xddts 040105 124331 Fields modified by jsmith-c
xddts 040106 125037 Enclosure Resolution added by ataaheri
xddts 040106 125102 Enclosure Previous Merge Build IDs added by ataaheri
xddts 040106 125102 R -> M (Merged) by ataaheri
xddts 040106 125111 M -> T (In-Test) by ataaheri
xddts 040116 100609 Fields modified by srice
webddts 040209 172724 Enclosure "Verification" added by jcorbett
webddts 040209 172724 T -> V (Verified) by jcorbett

□

NCR ID: ECSed38650 Status: VERIFIED Submitted: 031031
NCR Class: OPERATIONS Project: OPS_DPool Enclosures: 8

NCR TITLE...

Remove xml file from downloads directory or rename

PROBLEM INFORMATION...

Build Name[*]: Drop 6A.08
Test Site[*]: EDC DAAC
Detection Method[*]: Customer Use
Detected-In-Phase[*]: DAAC Activity
Test Case ID:
Machine Name:
Severity (1=Showstopper)[*]: 5
Priority: 007 Priority Date: 200311
High Priority: 007 Mode [*]: OPS
Trouble Ticket: SMC000000006222
DAAC Trouble Ticket: EDC000000014158
Submitter: evans

ANALYSIS INFORMATION...

Evaluate Engineer: kcarr
Assigned To: dkang
Analysis Due Date(yymmdd): 031231

COST ANALYSIS INFORMATION...

Cost[*]: LOW
Estimated Fix Time(hrs): 20
Estimated Fix Date(yymmdd): 040109
Est Num_SLOC: 30
Revised Fix Time (Hrs): 20
Revised Fix Date (yymmdd): 040109

TO BE FIXED INFORMATION...

Problem type[*]: source code
Recommended change[*]: source code
Implement Due Date (yymmdd): 040109
Eng SW Release Name: TBD
Eng SW Release Date (yymmdd):
Quality of NCR: 4
Workaround Available? N

Page 1/2

NCR Class: OPERATIONS Project: OPS_DPool Forwarded 031114

MERGE INFORMATION..

Resolution[*]: source code
Resolved by: dkang
Iteration: Drop 6A.08+
Indicate_SLOC[*]: Added
Num_SLOC: 12
Fixing time (hrs): 15
Affect CSCI: DPL
Merge Build Id: M040107003
Documentation affected (Y/N)? N
Fix Date (yymmdd): 040108
Patch Release Name: TBD
Patch Release Date (yymmdd):
TE SW Release Name: TBD
TE SW Release Date (yymmdd):

FORWARDING INFORMATION...

Old class: OPERATIONS
Old project: OPS_HEG

VERIFICATION INFORMATION...

Test Engineer: dkang
Verification Due:
Verification results(P/F)? P
Elapsed verification time (hrs): 1
Attachments (Y/N)? Y
Ver. Build ID[*]: Drop 7
Verification Machine: p2dps01
Verification Site[*]: PVC

Forwarded by: Kathleen Carr

***** Problem (Modified 031031 by ocoates) *****

Long Description :

Long Description: The DP-HEG HDF-EOS format has various metadata issues.

1. The embedded metadata must accurately describe the output data produced.
2. The accompanying met files must accurately describe the output data produced and be consistent with the embedded metadata.

The output directory contains an xml file, which is carried over from input HDF data. This file needs to be removed since it references the old information.

CHANGES TO THE EMBEDDED METADATA

- Output pixel size and resampling method must be specified.
- In the Geographic HDF embedded metadata, the "UpperLeft" and "LowerRight" coordinates units are specified as "Mtrs" (meters) instead of Degrees/Minutes/Seconds (DMS).
"UpperLeftPointMtrs=(-91022042.636000,40000000.000000)\n",
"LowerRightMtrs=(-69017005.749000,30000000.000000)\n",
"Projection=GCTP_GEO\n"
The DMS format is easily confused with meters and decimal degrees since it has no space between fields and the seconds are carried out to the decimal place. The attribute must reflect the correct units of the coordinates to avoid end-user confusion.
- The following attributes and their values (that can be extracted from the xml file) need to be added: ASTERMapOrientationAngle, Solar_Elevation_Angle, Solar_Azimuth_Angle, ASTERVNIRPointingAngle, ASTERSWIRPointingAngle, and ASTERTIRPointingAngle.

CHANGES REQUIRED IN THE METADATA FILE

- Output pixel size should be specified for all projections, including Geographic.
- Output projection should be added.
- Output projection parameters should be added.
- Output UpperLeftPointMtrs and LowerRightMtrs needs to be added. The attribute name should reflect the DMS units for the Geographic projection.
- Resampling method should be added.
- Output lines and samples need to be added. These can be extracted from the embedded metadata as XDim and YDim.
- The following attributes and their values (that can be extracted from the xml file) need to be added: ASTERMapOrientationAngle,

04-0092_ncrs

Solar_Elevation_Angle, Solar_Azimuth_Angle, ASTERNIRPointingAngle,
ASTERSWIRPointingAngle, and ASTERTIRPointingAngle.

IMPACT: The LPDAAC considers this an essential pre-requisite (i.e.
show stoppe
r) before any of the MODIS or ASTER data sets are released through the
Data Poo
l HEG.

LP DAAC POC: Gayla Evans
ocoates 10/29/03 11:53:07
Ticket deferred - Thurs., 10/30/03 - Being reviewed by Kathy Carr.
ocoates 10/30/03 13:54:44
Ticket deferred - Fri., 10/31/03
<< end of description >>

SUBMITTER INFO:
Submitter Phone: 605-594-6523
Submitter Email: gevas@usgs.gov
Submitter Name: Gayla Evans

***** Initial Analysis (Modified 031121 by kcarr) *****
11/21/03: NOTE: This fix will apply to both HDF-EOS output and GeoTiff
output.

10/31/03: Cannot remove the xml file from the downloads directory
unless NCR 38649 is fixed, because the xml file is currently the only
source of some metadata info for user. If the xml file is ultimately
removed from the downloads directory, this would need to be approved by
all DAACs.

Alternative is to rename the xml file in a way that makes it clear to
the user that it contains metadata associated with the input file, not
the output file.

***** IPT (Modified 040108 by dstepp) *****
1/5/04; TE REQUESTED. DAACs have agreed to rename the file. New naming
convention will be <filename>.input.xml. 12/22/03: DAACs responded w/
preference to rename the file rather than remove it. Will determine
renaming convention w/ LPDAAC & review it with all DAACs.

***** Analysis (Modified 040106 by kcarr) *****
Please describe your Analysis:

Need to get agreement from all DAACs on whether to rename the xml file
or remove it entirely.

DAACs have agreed to rename the file.
New naming convention will be <filename>.input.xml

04-0092_ncrs

***** ipt_history (Added 031222 by jsmith-c) *****

12/22/03: DAACs have responded with preference to rename the file rather than remove it. Will determine renaming convention with LPDAAC and review it with all DAACs.

12/15/03: Soliciting input from all DAACs regarding the options of renaming the input xml file or removing this file from /downloads directory. (e.g., some end users may be using it). Implementation of solution is planned for the January HEG patch.

11/10/03: TE REQUESTED. Since additional attributes are included in the MCF (NCR 38649), the xml can be removed. Planned for January HEG patch.

***** Resolution (Added 040109 by dkang) *****

Please describe your resolution to this problem:

DPL webaccess packager calls a packaging utility to pack the order data. I modified the packager to pass an new argument to tell the utility script if the order is a HEG order. In the script, I modified the code to add the ".input" string for the metadata filename of the HEG order.

***** Previous Merge Build IDs (Added 040109 by dkang) *****

Please enter any related Merge Build ID(s) information:

1) M040107003

2) M040107004

3)

4)

***** Verification (Added 040204 by idey) *****

Invoked Web access GUI in TS2 mode and ordered Data Set MOD43B1.4

First time ordered withoug HEG coversion and saw that there is datafile and no .input.xml file in the directory. Second time ordered using HEG conversion and found file
MOD43B1.A2003001.h32v08.004.2003024020131.hdf.input.xml

This veirfies the ncr that it creates .input.xml file for HEG conversion request orders

***** History *****

bugs 1010629 000000 Submitted by Remedy via ddts@eos.hitc.com
xddts 031031 133728 Fields modified by ocoates
xddts 031031 133922 Enclosure "Problem" edited by ocoates

04-0092_ncrs

```

xdds      031031 154951 Fields modified by kcarr
xdds      031031 155256 Enclosure "Initial Analysis" added by kcarr
batchbug  031106 082104 Priority changed to 23 by dds
xdds      031106 083907 Enclosure "IPT" added by dstepp
xdds      031110 092129 Enclosure "IPT" edited by kcarr
xdds      031110 125234 Enclosure "IPT" edited by jsmith-c
xdds      031110 125357 N -> A (Assign-Eval to kcarr) by jsmith-c
batchbug  031112 170115 Priority changed to 26 by dds
xdds      031114 091551 Forwarded from OPS_HEG to OPS_DPool by kcarr
batchbug  031119 190056 Priority changed to 19 by dds
xdds      031121 112153 Enclosure "Initial Analysis" edited by kcarr
batchbug  031203 215740 Priority changed to 14 by dds
xdds      031207 182247 Fields modified by jsmith-c
xdds      031207 182511 Enclosure "IPT" edited by jsmith-c
xdds      031207 183001 Enclosure "IPT" edited by jsmith-c
xdds      031207 183330 Enclosure "IPT" edited by jsmith-c
xdds      031208 124848 Enclosure "IPT" edited by kcarr
batchbug  031210 195248 Priority changed to 13 by dds
xdds      031215 095145 Enclosure "IPT" edited by kcarr
xdds      031215 095928 Enclosure "Analysis" added by kcarr
xdds      031215 095928 A -> B (Cost-Analyzed) by kcarr
batchbug  031216 151524 Priority changed to 10 by dds
xdds      031222 120158 Enclosure "IPT" edited by kcarr
xdds      031222 142903 Enclosure "ipt_history" added by jsmith-c
xdds      031222 142921 Enclosure "IPT" edited by jsmith-c
xdds      040106 114223 Enclosure "Analysis" edited by kcarr
xdds      040106 114243 Fields modified by kcarr
xdds      040107 150307 B -> R (Assign-Implement) by dkang
batchbug  040108 201321 Priority changed to 7 by dds
xdds      040108 201729 Enclosure "IPT" edited by dstepp
xdds      040108 202156 Enclosure "IPT" edited by dstepp
xdds      040109 102548 Enclosure Resolution added by dkang
xdds      040109 102607 Enclosure Previous Merge Build IDs added by dkang
xdds      040109 102608 R -> M (Merged) by dkang
xdds      040109 103019 M -> T (In-Test) by dkang
xdds      040109 103040 T -> T (In-Test) by dkang
xdds      040204 171310 Enclosure "Verification" added by idey
xdds      040204 171311 T -> V (Verified) by idey

```

□

NCR ID: ECSed38651	Status: VERIFIED	Submitted: 031031
NCR Class: OPERATIONS	Project: OPS_HEG	Enclosures: 8

NCR TITLE...

Change formats from HDF to GeoTiff w/o A Projection Conversion for ASTER

PROBLEM INFORMATION...

```

Build Name[*]: Drop 6A.08
Test Site[*]: EDC DAAC
Detection Method[*]: Customer Use
Detected-In-Phase[*]: DAAC Activity
Test Case ID:
Machine Name:
Severity (1=Showstopper)[*]: 5
Priority: 007 Priority Date: 200311
High Priority: 007 Mode [*]: OPS
Trouble Ticket: SMC00000006225

```

COST ANALYSIS INFORMATION...

```

Cost[*]: MEDIUM
Estimated Fix Time(hrs): 80
Estimated Fix Date(yymmdd): 040109
Est Num_SLOC: 100
Revised Fix Time (Hrs): 80
Revised Fix Date (yymmdd): 040126

```

TO BE FIXED INFORMATION...

```

Problem type[*]: source code
Recommended change[*]: source code
Implement Due Date (yymmdd): 040127

```

04-0092_ncrs

DAAC Trouble Ticket: EDC000000014216 Eng SW Release Name: TBD
Submitter: evans Eng SW Release Date (yymmdd):
ANALYSIS INFORMATION... Quality of NCR: 1
Evaluate Engineer: kcarr Workaround Available? N
Assigned To: cpradera
Analysis Due Date(yymmdd): 031201

Page 1/2

NCR Class: OPERATIONS Project: OPS_HEG

MERGE INFORMATION..

Resolution[*]: source code
Resolved by: cpradera
Iteration: Drop 6A.08
Indicate_SLOC[*]: Added
Num_SLOC: 1039
Fixing time (hrs): 120
Affect CSCI: HEG
Merge Build Id: M040127007
Documentation affected (Y/N)? N
Fix Date (yymmdd): 040127
Patch Release Name: TBD
Patch Release Date (yymmdd):
TE SW Release Name: TBD
TE SW Release Date (yymmdd):

VERIFICATION INFORMATION...

Test Engineer: cpradera
Verification Due:
Verification results(P/F)? P
Elapsed verification time (hrs): 1
Attachments (Y/N)? N
Ver. Build ID[*]: Drop 6A.08+
Verification Machine: f3ins01
Verification Site[*]: EDF

Page 2/2

***** Problem (Modified 031031 by ocoates) *****

Long Description :
DP-HEG: needs to provide an option for a format change from HDF to
GeoTiff with
out a projection conversion.
The DP-HEG needs to provide an option to change formats from HDF to
GeoTiff wi
thout doing a projection conversion. This would take the original HDF
file, se
parate the images into individual bands, and generate a GeoTiff for
each band.
In the case of ASTER, the output created would be a Path-Oriented UTM
image in
GeoTiff format. This image would be exactly like the HDF image except
that it
is in separate bands and in GeoTiff format. This is important for both
MODIS an
d ASTER end-users. This would allow end-user to work with data in the
original
projection but with the convenience of the GeoTiff format. This would
also el
minate the need to resample the data again.

Since the output ASTER scenes will be Path-Oriented, it is important to
make available the Latitudes and Longitude values from the Geometric
Correction Table (GCT) for each of the telescopes (VNIR, SWIR, TIR).
These can
be dumped to ASCII files, and need to be made available as
accompanying inform
ation to the GeoTiff files.

IMPACT: The LPDAAC considers this an essential pre-requisite (i.e.

04-0092_ncrs

show-stoppe

r) before any of the MODIS or ASTER data sets are released through the Data Poo
l HEG.

LP DAAC POC: Gayla Evans

ocoates 10/29/03 12:13:26

Ticket deferred - Thurs., 10/30/03 - Being reviewed by Kathy Carr.

ocoates 10/30/03 13:55:44

Ticket deferred - Fri., 10/31/03

<< end of description >>

SUBMITTER INFO:

Submitter Name: Gayla Evans

Submitter Email: gevans@usgs.gov

Submitter Phone: 605-594-6523

***** Initial Analysis (Modified 031031 by kcarr) *****
10/31/03: GeoTiff is gridded, so ASTER data needs to be gridded before
converting to GeoTiff. However, we can grid it and leave it in its
path-oriented 'UTM' state.

End user would choose 'GeoTiff UTM' for ASTER data. See related NCR
37721 (need to support UTM and PS for swath)

***** IPT (Modified 040201 by jsmith-c) *****
1/30/04: Addressing some issues identified by EDC. Should re-merge no
later than Wed. GUI pull-down option for 6A08 will be "GeoTiff No
Reprojection" - this option applies to ASTER swath data only. No .met
file will be produced for the ASTER swath GeoTiff output.

***** Analysis (Added 031212 by cpradera) *****
Please describe your Analysis:

Research the GeoTIFF specifications to see how a projection grid
can be displayed at an angle. If this is possible, then work
into the swtif code.
Cid Praderas

***** IPT_HISTORY\ (Added 040128 by jsmith-c) *****
1/23/04: Current merge date is 1/26. Note that for the Jan. patch, no
.met file will be produced for the ASTER swath GeoTiff output. This
omission is documented in NCR 39242.

1/16/04: Current merge date is 1/23; still scheduled for Jan. patch.
GUI pull-down option for 6A08 will be "GeoTiff No Reprojection" - this
option applies to ASTER swath data only. EDC has asked the science
team at JPL to answer some questions about the MapOrientationAngle -
these answers are needed before final implementation.

04-0092_ncrs

12/12/03: Analysis continues. > 80 Hours. Will be in Jan Patch. Will separate HDF into individual bands, and generate a GeoTiff for each band. ASTER output would be Path-Oriented UTM. This is important for both MODIS & ASTER end-users.

***** Resolution (Added 040128 by cpradera) *****

Please describe your resolution to this problem:

Most of the swtif routine was affected to include the new functionality (adding a no projection GeoTIFF for ASTER SWATH data).

New routines and modifications include:

- a) Create a routine to calculate the UTM grid rotation angle
- b) HEG Front End was modified to create a new parameter file and to take a new input from the Web Access Gui.
- c) swtif routines were modified to handle new parameter file.
- d) Write (to GeoTIFF) routines from a Swath were added. Normally routines only write from a Grid.
- e) Add UTM GeoTIFF tags.
- f) swtif was extensively modified internally. Many looping counters had to be modified.

***** Previous Merge Build IDs (Added 040128 by cpradera) *****

Please enter any related Merge Build ID(s) information:

- 1) M040127007
- 2) M040127011
- 3)
- 4)

***** Verification (Added 040209 by jcorbett) *****

Please describe your verification:

DEV04. Tif output of no reprojection compared in ENVI to original HDF input. Input and output files contain the same data but in different formats. See run #139.

***** History *****

bugs 1010629 000000 Submitted by Remedy via ddts@eos.hitc.com
xddts 031031 134531 Enclosure "Problem" edited by ocoates
xddts 031031 134535 Fields modified by ocoates
xddts 031031 134557 Fields modified by ocoates
xddts 031031 155805 Fields modified by kcarr
xddts 031031 160104 Enclosure "Initial Analysis" added by kcarr
xddts 031031 161113 Enclosure "Initial Analysis" edited by kcarr
batchbug 031106 081843 Priority changed to 11 by ddts
xddts 031106 083015 Enclosure "IPT" added by dstepp
xddts 031110 120737 Enclosure "IPT" edited by kcarr

04-0092_ncrs

```

xdds 031110 132555 Enclosure "IPT" edited by jsmith-c
xdds 031110 134856 Enclosure "IPT" edited by jsmith-c
xdds 031114 115330 N -> A (Assign-Eval to cpradera) by kcarr
xdds 031114 115430 Enclosure "IPT" edited by kcarr
xdds 031117 134053 Enclosure "IPT" edited by aaljazra
batchbug 031119 190107 Priority changed to 20 by dds
xdds 031123 210104 Fields modified by jsmith-c
xdds 031123 210249 Fields modified by jsmith-c
xdds 031123 210655 Enclosure "IPT" edited by jsmith-c
batchbug 031203 215753 Priority changed to 15 by dds
batchbug 031210 195503 Priority changed to 25 by dds
xdds 031212 185407 Enclosure "Analysis" added by cpradera
xdds 031212 185407 A -> B (Cost-Analyzed) by cpradera
xdds 031212 185501 Enclosure "IPT" edited by cpradera
xdds 031213 170911 Enclosure "IPT" edited by jsmith-c
batchbug 031216 151812 Priority changed to 24 by dds
xdds 040108 132133 Fields modified by kcarr
batchbug 040108 201442 Priority changed to 14 by dds
batchbug 040115 204140 Priority changed to 12 by dds
xdds 040116 122541 Enclosure "IPT" edited by kcarr
xdds 040116 133021 Enclosure "IPT" edited by kcarr
batchbug 040122 205117 Priority changed to 9 by dds
xdds 040123 114120 Fields modified by kcarr
xdds 040123 115312 Enclosure "IPT" edited by kcarr
xdds 040127 162501 B -> R (Assign-Implement) by cpradera
xdds 040128 104220 Enclosure "IPT_HISTORY" added by jsmith-c
xdds 040128 104430 Enclosure "IPT" edited by jsmith-c
xdds 040128 125842 Enclosure Resolution added by cpradera
xdds 040128 125908 Enclosure Previous Merge Build IDs added by cpradera
xdds 040128 125909 R -> M (Merged) by cpradera
batchbug 040129 204510 Priority changed to 8 by dds
xdds 040201 123529 Enclosure "IPT" edited by jsmith-c
batchbug 040204 183822 Priority changed to 7 by dds
xdds 040209 105707 M -> T (In-Test) by cpradera
webdds 040209 183622 Enclosure "Verification" added by jcorbett
webdds 040209 183622 T -> V (Verified) by jcorbett

```

□

NCR ID: ECSed38771	Status: VERIFIED	Submitted: 031121
NCR Class: OPERATIONS	Project: OPS_Toolkit	Enclosures: 7

NCR TITLE...
 GCTP Library needs to include MODIS sphere/datum

PROBLEM INFORMATION...	COST ANALYSIS INFORMATION...
Build Name[*]: Drop 6A.08+	Cost[*]: MEDIUM
Test Site[*]: EDC DAAC	Estimated Fix Time(hrs): 80
Detection Method[*]: Customer Use	Estimated Fix Date(yymmdd): 040109
Detected-In-Phase[*]: Operability Test	Est Num_SLOC: 0
Test Case ID: n/a\	Revised Fix Time (Hrs): 80
Machine Name: n/a	Revised Fix Date (yymmdd): 040109
Severity (1=Showstopper)[*]: 2	TO BE FIXED INFORMATION...
Priority: 015 Priority Date: 200312	Problem type[*]: source code
High Priority: 003 Mode [*]: TS1	Recommended change[*]: source code
Trouble Ticket: SMC000000006086	Implement Due Date (yymmdd):
DAAC Trouble Ticket:	Eng SW Release Name: TBD
Submitter: kcarr	Eng SW Release Date (yymmdd):

04-0092_ncrs
ANALYSIS INFORMATION...
Evaluate Engineer: kcarr
Assigned To: sni
Analysis Due Date(yymmdd): 031212
Quality of NCR: 4
Workaround Available? N

Page 1/2

NCR Class: OPERATIONS Project: OPS_Toolkit

MERGE INFORMATION..
Resolution[*]: source code
Resolved by: sni
Iteration: Drop 6A.08+
Indicate_SLOC[*]: Combination
Num_SLOC: 563
Fixing time (hrs): 88
Affect CSCI: TOOLKIT
Merge Build Id: Mo40105005
Documentation affected (Y/N)? Y
Fix Date (yymmdd): 040109
Patch Release Name: TBD
Patch Release Date (yymmdd):
TE SW Release Name: TBD
TE SW Release Date (yymmdd):

VERIFICATION INFORMATION...
Test Engineer: sni
Verification Due:
Verification results(P/F)? P
Elapsed verification time (hrs): 1
Attachments (Y/N)? N
Ver. Build ID[*]: Drop 6A.08+
Verification Machine: f3ins01
Verification Site[*]: EDF

Page 2/2

***** Problem (Modified 031121 by kcarr) *****
Please describe the problem you are experiencing below, including
what you did, what you expected to happen, and what actually happened:

In order to support HEG usage of the correct MODIS sphere/datum (see
OPS_HEG NCR 38372), the Toolkit GCTP libraries must be updated to
include this sphere/datum.

Currently sphere 6370997.000000 is hardcoded in the GCTP libraries.

***** status (Modified 031212 by sni) *****
GCTP code change and testing is on progress.

6A.08 version of toolkit and hdfeos need to add CEA projection code and
MODIS sphere, testing will run upon both changes.

relB version of toolkit and hdfeos only need add MODIS sphere, testing
only upon this change.

GCTP code fix been tested with hdfeos and toolkit test driver. The
toolkit fix needs the test with HEG and MODID pge before merge.

***** IPT (Modified 031222 by sni) *****
12/8/03 Related to NCR 38372. Will be in the Jan HEG patch.
12/18/03 Completed coding and regression test. Will merge the fix with
HEG NCR 38372.

***** Analysis (Modified 031215 by sni) *****

Please describe your Analysis:

GCTP code change has been tested with hdfeos and toolkit test driver in both relB and 6A.08 baseline.

The code fix has been handed to HEG and MODIS pge to test and comment.

Will need the feedback from HEG and MODIS PGEs before merge this NCR.

***** Resolution (Added 040106 by sni) *****

Please describe your resolution to this problem:

Toolkit GCTP library has been changed to support MODIS sphere (related to NCR 39372, sphere 6371007.181).

The GCTP library fix has been applied to hdfeos, and toolkit.

***** Previous Merge Build IDs (Added 040106 by sni) *****

Please enter any related Merge Build ID(s) information:

1) M040105005 for 6A08

2) M040105003 for relB

3)

4)

***** Verification (Added 040209 by jcorbett) *****

Please describe your verification:

DEV04. Correct MODIS spheroid value of 6371007.181 found in spheroid.txt file. MODIS conversions now refer to correct value for RADIUS of sphere in resample logs. Refer to verification of NCR 38772.

***** History *****

xddts	031121	134915	Submitted to OPS_Toolkit by kcarr
xddts	031121	135019	Enclosure "Problem" added by kcarr
xddts	031121	135057	Fields modified by kcarr
xddts	031121	135205	Enclosure "Problem" edited by kcarr
xddts	031121	135433	Enclosure "Problem" edited by kcarr
xddts	031126	130822	N -> A (Assign-Eval to sni) by kcarr
batchbug	031203	215620	Priority changed to 8 by ddts
xddts	031204	161153	Enclosure "status" added by sni
xddts	031207	182103	Fields modified by jsmith-c

04-0092_ncrs

xddts	031207	182146	Enclosure "IPT" added by jsmith-c
xddts	031208	124730	Enclosure "IPT" edited by kcarr
batchbug	031210	195140	Priority changed to 7 by ddts
xddts	031212	161257	Enclosure "status" edited by sni
xddts	031213	164157	Enclosure "IPT" edited by jsmith-c
xddts	031215	092007	Enclosure "testing status" added by sni
xddts	031215	092408	Enclosure "Analysis" added by sni
xddts	031215	092408	A -> B (Cost-Analyzed) by sni
xddts	031215	092543	Enclosure "Analysis" edited by sni
xddts	031215	092606	Enclosure "testing status" deleted by sni
xddts	031215	092817	Enclosure "Analysis" edited by sni
xddts	031215	092851	Enclosure "Analysis" edited by sni
batchbug	031216	151350	Priority changed to 3 by ddts
xddts	031218	142627	Fields modified by sni
xddts	031218	143026	Enclosure "IPT" edited by sni
xddts	031218	143227	Enclosure "IPT" edited by sni
xddts	031218	143343	Fields modified by sni
xddts	031222	092639	Enclosure "IPT" edited by sni
xddts	040105	140404	B -> R (Assign-Implement) by sni
xddts	040106	125845	Enclosure Resolution added by sni
xddts	040106	130038	Enclosure Previous Merge Build IDs added by sni
xddts	040106	130038	R -> M (Merged) by sni
batchbug	040108	201510	Priority changed to 16 by ddts
batchbug	040115	204214	Priority changed to 15 by ddts
xddts	040120	091648	M -> M (Merged) by sni
xddts	040120	091717	M -> T (In-Test) by sni
xddts	040126	163712	Fields modified by srice
webddts	040209	102532	Enclosure "Verification" added by jcorbett
webddts	040209	102533	T -> V (Verified) by jcorbett

□

NCR ID: ECSed39004	Status: CLOSED	Submitted: 040106
NCR Class: OPERATIONS	Project: OPS_DPool	Enclosures: 7

NCR TITLE...
6A.08+ TS1. Can't populate DataPool with version 196 data.

PROBLEM INFORMATION...	COST ANALYSIS INFORMATION...
Build Name[*]: Drop 6A.08	Cost[*]: LOW
Test Site[*]: NSIDC DAAC	Estimated Fix Time(hrs): 2
Detection Method[*]: Customer Use	Estimated Fix Date(yymmdd): 040108
Detected-In-Phase[*]: DAAC Activity	Est Num_SLOC: 20
Test Case ID:	Revised Fix Time (Hrs): 2
Machine Name:	Revised Fix Date (yymmdd): 040108
Severity (1=Showstopper)[*]: 2	TO BE FIXED INFORMATION...
Priority: 027 Priority Date: 040109	Problem type[*]: source code
High Priority: 027 Mode [*]: OPS	Recommended change[*]: source code
Trouble Ticket: SMC00000006367	Implement Due Date (yymmdd):
DAAC Trouble Ticket: NSC000000001101	Eng SW Release Name: TBD
Submitter: cathyf	Eng SW Release Date (yymmdd):
ANALYSIS INFORMATION...	Quality of NCR: 4
Evaluate Engineer: kcarr	Workaround Available? Y
Assigned To: cduma	
Analysis Due Date(yymmdd): 040109	

Page 1/2

NCR Class: OPERATIONS	Project: OPS_DPool
-----------------------	--------------------

04-0092_ncrs

MERGE INFORMATION..
Resolution[*]: source code
Resolved by: cduma
Iteration: Drop 6A.08+
Indicate_SLOC[*]: Combination
Num_SLOC: 20
Fixing time (hrs): 2
Affect CSCI: DPL
Merge Build Id:
Documentation affected (Y/N)? N
Fix Date (yymmdd): 040105
Patch Release Name: TBD
Patch Release Date (yymmdd):
TE SW Release Name: TE_6A.08_DPL.04
TE SW Release Date (yymmdd): 040112

VERIFICATION INFORMATION...
Test Engineer: sfrank
Verification Due:
Verification results(P/F)?: P
Elapsed verification time (hrs): 1
Attachments (Y/N)? N
Ver. Build ID[*]: Drop 6A.08+
Verification Machine: N/A
Verification Site[*]: NSIDC DAAC
CLOSING INFORMATION...
Closing Reason[*]: Fixed
CCR#/NCR#: None
Closing accepted by: srice

Page 2/2

***** Problem (Modified 040106 by ocoates) *****
Long Description :

We have a test data set that has been reverted to 196. We're trying to populate the data pool with this data set but it will not go in. The error produced is:

```
[12.31.2003 15:07:36.895][1370] EcDlInsertUtility ****Ingest process  
shutting down Status: RETRY Detail: warehouse tables insert failure [D]  
EcScienceGranule.saveToDplDatabase: could not populate warehouse  
tables: Resolve operation failed: Value out of range. Value:"196"  
Radix:10 ]
```

IMPACT: Impacts part of our BMGT/ECHO testing.
ocoates 01/05/04 13:40:26

Copy of ticket sent to Kathy Carr for review.
ocoates 01/06/04 08:46:15
Subject: Re: 6367
Date: Mon, 05 Jan 2004 14:24:59 -0500
From: Kathy Carr <kcarr@eos.east.hitc.com>
To: ocoates@eos.east.hitc.com

We are in the process of investigating - we have already gotten some database input from Cathy Fowler, and are now requesting log files.

Will keep you posted.

Thanks.
Kathy

ocoates 01/06/04 11:18:19
Ticket deferred - Wed., 1/7/04 - Kathy has requested logfiles.

<< end of description >>
SUBMITTER INFO:
Submitter Name: Cathy Fowler
Submitter Email: cathyf@kryos.colorado.edu
Submitter Phone: 303-492-3397

Page 21

***** Analysis (Added 040108 by cduma) *****

The VersionId is stored as a Java Byte type in the warehouse code - all java types are signed - so the valid version IDs go from -128 to +127

***** workaround (Added 040108 by cduma) *****

Please describe the workaround to the problem:

The test granule they we retrying to insert was version 196 - they can create a new ESDT with a version number under 127.

***** Resolution (Added 040112 by cduma) *****

The type of the VersionId in the DW code was changed to String and converted to int on the way in the DW.

***** Previous Merge Build IDs (Added 040112 by cduma) *****

Please enter any related Merge Build ID(s) information:

- 1) M040108010
- 2) M040108007
- 3) M040108009

***** Verification (Added 040122 by sfrank) *****

Please describe your verification:

Resolved by TE_6A.08_DPL.04.

***** Closure (Added 040126 by srice) *****

Describe the Reason for closing this NCR?
Close per review in PRB Meeting on 01/14/04.

***** History *****

bugs 1010629 000000 Submitted by Remedy via ddts@eos.hitc.com
xddts 040106 160220 Enclosure "Problem" edited by ocoates
xddts 040107 105919 N -> A (Assign-Eval to cduma) by kcarr
xddts 040108 131924 Enclosure "Analysis" added by cduma
xddts 040108 131924 A -> B (Cost-Analyzed) by cduma
xddts 040108 132140 Enclosure "workaround" added by cduma

04-0092_ncrs

xddts	040108	132140	B -> R (Assign-Implement) by cduma
batchbug	040108	202140	Priority changed to 50 by dds
xddts	040108	212612	Fields modified by dstepp
xddts	040112	113809	Enclosure Resolution added by cduma
xddts	040112	113902	Enclosure Previous Merge Build IDs added by cduma
xddts	040112	113902	R -> M (Merged) by cduma
xddts	040112	120131	M -> T (In-Test) by cduma
xddts	040113	093129	Fields modified by ocoates
xddts	040115	112532	Fields modified by cduma
xddts	040115	112545	Fields modified by cduma
webddts	040122	141124	Enclosure "Verification" added by sfrank
webddts	040122	141125	T -> V (Verified) by sfrank
xddts	040126	163822	Fields modified by srice
xddts	040126	163852	Enclosure "Closure" added by srice
xddts	040126	163852	V -> C (Closed) by srice

□

NCR ID: ECSed39027	Status: VERIFIED	Submitted: 040108
NCR Class: OPERATIONS	Project: OPS_Toolkit	Enclosures: 6

NCR TITLE...
 apply GCTP library change for every platform

PROBLEM INFORMATION...	COST ANALYSIS INFORMATION...
Build Name[*]: Drop 6A	Cost[*]: LOW
Test Site[*]: EDF	Estimated Fix Time(hrs): 12
Detection Method[*]: Analysis	Estimated Fix Date(yymmdd): 040114
Detected-In-Phase[*]: Code Inspection	Est Num_SLOC: 0
Test Case ID:	Revised Fix Time (Hrs): 12
Machine Name:	Revised Fix Date (yymmdd): 040114
Severity (1=Showstopper)[*]: 2	TO BE FIXED INFORMATION...
Priority: 000 Priority Date:	Problem type[*]: builds
High Priority: 000 Mode [*]: OPS	Recommended change[*]: process
Trouble Ticket:	Implement Due Date (yymmdd):
DAAC Trouble Ticket:	Eng SW Release Name: TBD
Submitter: sni	Eng SW Release Date (yymmdd):
ANALYSIS INFORMATION...	Quality of NCR: 3
Evaluate Engineer: kcarr	Workaround Available? N
Assigned To: sni	
Analysis Due Date(yymmdd):	

Page 1/2

NCR Class: OPERATIONS	Project: OPS_Toolkit	Forwarded 040112
-----------------------	----------------------	------------------

MERGE INFORMATION..	VERIFICATION INFORMATION...
Resolution[*]: process	Test Engineer: sni
Resolved by: sni	Verification Due:
Iteration: Drop 6A	Verification results(P/F)?: P
Indicate_SLOC[*]: Not Applicable	Elapsed verification time (hrs): 4
Num_SLOC: 0	Attachments (Y/N)? N
Fixing time (hrs): 12	Ver. Build ID[*]: Drop 6A
Affect CSCI: TOOLKIT	Verification Machine: solara
Merge Build Id: M040112001	Verification Site[*]: EDF
Documentation affected (Y/N)? N	
Fix Date (yymmdd): 040113	
Patch Release Name: TBD	
Patch Release Date (yymmdd):	
TE SW Release Name: TBD	

04-0092_ncrs

TE SW Release Date (yymmdd):
FORWARDING INFORMATION...
Old class: REL_B0_INFORMAL
Old project: RelB0_Toolkit

Forwarded by: Kathleen Carr

***** Problem (Added 040108 by sni) *****
PROBLEM DESCRIPTION....

I had changed GCTP library source code per NCR ECSed38771.

Toolkit should apply this change to hdfeos, and hdfeos5 in order to coordinate the GCTP for every platform that toolkit support.

***** Impact (Added 040108 by sni) *****
IMPACT....

***** Analysis (Added 040112 by sni) *****
Please describe your Analysis:

The gctp change need to merge into
/ecs/hdfeos/lib/tmp/ and
/ecs/hdfeos5/lib/tmp/

***** Resolution (Added 040114 by sni) *****
Please describe your resolution to this problem:

.a files inside /ecs/hdfeos/lib/tmp/ and /ecs/hdfeos5/lib/tmp/ had been re-built in following OS:

dec,
hp11,
sgi64,
sun5.8,
hp,
ibm,
linux,
sgi32

The files had merged into both relB, and 6A08 baselines.

Sharon Ni

***** Previous Merge Build IDs (Added 040114 by sni) *****
Please enter any related Merge Build ID(s) information:

1)M040112001

2)M040112002

3)

4)

***** Verification (Added 040129 by sni) *****
 Please describe your verification:

The lib .a been verified with in newly created views (relB, 6A08).

Different .a lib were merged OK.

***** History *****

```

xddts    040108 125945 Submitted to RelB0_Toolkit by sni
xddts    040108 130816 Enclosure "Problem" added by sni
xddts    040108 130827 Enclosure "Impact" added by sni
xddts    040112 092708 N -> A (Assigned-to sni) by kcarr
xddts    040112 093055 Forwarded from RelB0_Toolkit to OPS_Toolkit by kcarr
xddts    040112 110848 Enclosure "Analysis" added by sni
xddts    040112 110848 A -> B (Cost-Analyzed) by sni
xddts    040112 111147 B -> R (Assign-Implement) by sni
xddts    040114 100313 Enclosure Resolution added by sni
xddts    040114 100407 Enclosure Previous Merge Build IDs added by sni
xddts    040114 100407 R -> M (Merged) by sni
xddts    040129 144630 M -> T (In-Test) by sni
xddts    040129 145030 Enclosure "Verification" added by sni
xddts    040129 145030 T -> V (Verified) by sni

```

□

NCR ID: ECSed39183	Status: VERIFIED	Submitted: 040119
NCR Class: OPERATIONS	Project: OPS_DPool	Enclosures: 6

NCR TITLE...

WebAccess: 'GeoTiff No Reprojection' option for HEG convers. ASTER swath

PROBLEM INFORMATION...

Build Name[*]: Drop 6A.08+
 Test Site[*]: EDC DAAC
 Detection Method[*]: Customer Use
 Detected-In-Phase[*]: DAAC Activity
 Test Case ID: n/a
 Machine Name: n/a
 Severity (1=Showstopper)[*]: 5
 Priority: 009 Priority Date: 200401
 High Priority: 009 Mode [*]: TS1
 Trouble Ticket: n/a
 DAAC Trouble Ticket: n/a
 Submitter: kcarr

ANALYSIS INFORMATION...

COST ANALYSIS INFORMATION...

Cost[*]: LOW
 Estimated Fix Time(hrs): 9
 Estimated Fix Date(yymmdd): 040123
 Est Num_SLOC: 30
 Revised Fix Time (Hrs): 9
 Revised Fix Date (yymmdd): 040126

TO BE FIXED INFORMATION...

Problem type[*]: source code
 Recommended change[*]: source code
 Implement Due Date (yymmdd): 040123
 Eng SW Release Name: 6A08
 Eng SW Release Date (yymmdd): 040123
 Quality of NCR: 4

04-0092_ncrs

Evaluate Engineer: kcarr

Workaround Available? N

Assigned To: yli

Analysis Due Date(yymmdd): 040123

Page 1/2

NCR Class: OPERATIONS

Project: OPS_DPool

MERGE INFORMATION..

Resolution[*]: source code

Resolved by: yli

Iteration: Drop 6A.08

Indicate_SLOC[*]: Added

Num_SLOC: 37

Fixing time (hrs): 9

Affect CSCI: N/A

Merge Build ID: M040121001

Documentation affected (Y/N)? N

Fix Date (yymmdd): 040122

Patch Release Name: TBD

Patch Release Date (yymmdd):

TE SW Release Name: TBD

TE SW Release Date (yymmdd):

VERIFICATION INFORMATION...

Test Engineer: yli

Verification Due: 040209

Verification results(P/F)? P

Elapsed verification time (hrs): 1

Attachments (Y/N)? N

Ver. Build ID[*]: Drop 6A.08+

Verification Machine: f3ins01

Verification Site[*]: EDF

Page 2/2

***** Problem (Added 040119 by kcarr) *****

Please describe the problem you are experiencing below, including what you did, what you expected to happen, and what actually happened:

In order to implement OPS_HEG Sev 5 NCR 38651 (change formats for HDF to GeoTiff w/o projection conversion), the Web Access GUI needs to be changed to allow the user to specify a 'GeoTiff No Reprojection' option. This option should be displayed for ASTER swath data only.

The 6A08 solution is to add the 'GeoTiff No Reprojection' option to the WebAccess pull down menu, only for ASTER swath data sets.

***** Analysis (Added 040121 by yli) *****

The fix requires the changes in templates convOption.vm and java src: CartOrderImpl.java. Aster Swath will be treated as a special case when web access gui displays the projection options. Inside the shopping cart, if the order is a mixture of Aster Swath and other grid type, only the common projections will be displayed.

***** IPT (Added 040123 by kcarr) *****

1/23/04: This NCR is the Data Pool GUI companion of HEG NCR 38651.

***** Resolution (Modified 040205 by kcarr) *****

Please describe your resolution to this problem:

1. Retrieve information from CartOrderImpl.java:

1)whether an order consists swath data or grid data or both

2) whether an order consists ASTER ESDT only

In convOption.vm, based on the information from 1, make sure that:

2. For all swath type, the available conversion options include:

1) HDF-EOS No Reprojection (Previously HDF-EOS No Change) (NOTE: This was later changed to "No Change (HDF-EOS No Reprojection)").

2) HDF-EOS Geographic

3) GeoTIFF Geographic

3. In addition, "GeoTIFF No Reprojection" is added for ASTER Swath granule only and for an order consists solely ASTER Swath granules.

***** Previous Merge Build IDs (Added 040127 by yli) *****
Please enter any related Merge Build ID(s) information:

1)

2)

3)

4)

***** Verification (Added 040209 by jcorbett) *****
Please describe your verification:

DEV04 mode. When converting AST_L1B the correct four choices are available. No reprojection choices abset for MODIS and MISR data.

***** History *****

```
xddts    040119 143037 Submitted to OPS_DPool by kcarr
xddts    040119 143423 Enclosure "Problem" added by kcarr
xddts    040119 143442 N -> A (Assign-Eval to yli) by kcarr
webddts  040121 092204 Enclosure "Analysis" added by yli
webddts  040121 092343 A -> B (Cost-Analyzed) by yli
webddts  040121 092612 B -> R (Assign-Implement) by yli
batchbug 040122 205128 Priority changed to 10 by ddts
xddts    040123 114244 Fields modified by kcarr
xddts    040123 114454 Enclosure "IPT" added by kcarr
webddts  040127 125644 Enclosure Resolution added by yli
webddts  040127 125644 Enclosure Previous Merge Build IDs added by yli
webddts  040127 125645 R -> M (Merged) by yli
batchbug 040129 204525 Priority changed to 9 by ddts
xddts    040205 095618 Enclosure "Resolution" edited by kcarr
webddts  040209 094648 M -> T (In-Test) by yli
webddts  040209 095151 Enclosure "Verification" added by jcorbett
webddts  040209 095152 T -> V (Verified) by jcorbett
```

□

NCR ID: ECSed39381 Status: VERIFIED Submitted: 031031
 NCR Class: OPERATIONS Project: OPS_HEG Enclosures: 5

NCR TITLE...

AST_L1B 3B band fails to convert for GeoTiff No Reprojection

PROBLEM INFORMATION...

Build Name[*]: Drop 6A.08
 Test Site[*]: EDC DAAC
 Detection Method[*]: Engineering Test
 Detected-In-Phase[*]: Unit Test
 Test Case ID: n/a
 Machine Name: n/a
 Severity (1=Showstopper)[*]: 2
 Priority: 008 Priority Date: 200311
 High Priority: 008 Mode [*]: Other
 Trouble Ticket: n/a
 DAAC Trouble Ticket: n/a
 Submitter: evans

ANALYSIS INFORMATION...

Evaluate Engineer: kcarr
 Assigned To: cpradera
 Analysis Due Date(yymmdd): 020204

COST ANALYSIS INFORMATION...

Cost[*]: MEDIUM
 Estimated Fix Time(hrs): 16
 Estimated Fix Date(yymmdd): 040204
 Est Num_SLOC: 100
 Revised Fix Time (Hrs): 16
 Revised Fix Date (yymmdd): 040204

TO BE FIXED INFORMATION...

Problem type[*]: source code
 Recommended change[*]: source code
 Implement Due Date (yymmdd): 040204
 Eng SW Release Name: TBD
 Eng SW Release Date (yymmdd):
 Quality of NCR: 3
 Workaround Available? N

Page 1/2

NCR Class: OPERATIONS Project: OPS_HEG

MERGE INFORMATION..

Resolution[*]: source code
 Resolved by: cpradera
 Iteration: Drop 6A.08
 Indicate_SLOC[*]: Added
 Num_SLOC: 1039
 Fixing time (hrs): 120
 Affect CSCI: HEG
 Merge Build Id: M040127007
 Documentation affected (Y/N)? N
 Fix Date (yymmdd): 040127
 Patch Release Name: TBD
 Patch Release Date (yymmdd):
 TE SW Release Name: TBD
 TE SW Release Date (yymmdd):

VERIFICATION INFORMATION...

Test Engineer: cpradera
 Verification Due:
 Verification results(P/F)?: P
 Elapsed verification time (hrs): 1
 Attachments (Y/N)? N
 Ver. Build ID[*]: Drop 6A.08+
 Verification Machine: f3ins01
 Verification Site[*]: EDF

Page 2/2

***** Problem (Modified 040204 by kcarr) *****

While testing the proposed new ASTER GeoTiff No Reprojection product being created for NCR 38651, EDC found that the AST_L1B 3B band fails to convert to GeoTiff. (Testing of the product in house had been with AST_EXP, which does not have a 3B band.)

***** Resolution (Added 040205 by cpradera) *****

04-0092_ncrs

Please describe your resolution to this problem:

The 3B band had an offset different than the other fields.
Code was modified to account for this.

***** Previous Merge Build IDs (Added 040205 by cpradera) *****
Please enter any related Merge Build ID(s) information:

1)M040204005

2)M040204006

3)

4)

***** IPT (Modified 040209 by jsmith-c) *****
2/9/04 The 3B band had an offset different than the other fields. Code
was modified to account for this.

***** Verification (Added 040209 by jcorbett) *****
Please describe your verification:

DEV04 run #123 ran to completion using AST_L1B granule for GEotiff
Geographic projection.

***** History *****

bugs 1010629 000000 Submitted by Remedy via ddts@eos.hitc.com
xddts 031031 134531 Enclosure "Problem" edited by ocoates
xddts 031031 134535 Fields modified by ocoates
xddts 031031 134557 Fields modified by ocoates
xddts 031031 155805 Fields modified by kcarr
xddts 031031 160104 Enclosure "Initial Analysis" added by kcarr
xddts 031031 161113 Enclosure "Initial Analysis" edited by kcarr
batchbug 031106 081843 Priority changed to 11 by ddts
xddts 031106 083015 Enclosure "IPT" added by dstepp
xddts 031110 120737 Enclosure "IPT" edited by kcarr
xddts 031110 132555 Enclosure "IPT" edited by jsmith-c
xddts 031110 134856 Enclosure "IPT" edited by jsmith-c
xddts 031114 115330 N -> A (Assign-Eval to cpradera) by kcarr
xddts 031114 115430 Enclosure "IPT" edited by kcarr
xddts 031117 134053 Enclosure "IPT" edited by aaljazra
batchbug 031119 190107 Priority changed to 20 by ddts
xddts 031123 210104 Fields modified by jsmith-c
xddts 031123 210249 Fields modified by jsmith-c
xddts 031123 210655 Enclosure "IPT" edited by jsmith-c
batchbug 031203 215753 Priority changed to 15 by ddts
batchbug 031210 195503 Priority changed to 25 by ddts

04-0092_ncrs

```

xddts    031212 185407 Enclosure "Analysis" added by cpradera
xddts    031212 185407 A -> B (Cost-Analyzed) by cpradera
xddts    031212 185501 Enclosure "IPT" edited by cpradera
xddts    031213 170911 Enclosure "IPT" edited by jsmith-c
batchbug 031216 151812 Priority changed to 24 by ddts
xddts    040108 132133 Fields modified by kcarr
batchbug 040108 201442 Priority changed to 14 by ddts
batchbug 040115 204140 Priority changed to 12 by ddts
xddts    040116 122541 Enclosure "IPT" edited by kcarr
xddts    040116 133021 Enclosure "IPT" edited by kcarr
batchbug 040122 205117 Priority changed to 9 by ddts
xddts    040123 114120 Fields modified by kcarr
xddts    040123 115312 Enclosure "IPT" edited by kcarr
xddts    040127 162501 B -> R (Assign-Implement) by cpradera
xddts    040128 104220 Enclosure "IPT_HISTORY" added by jsmith-c
xddts    040128 104430 Enclosure "IPT" edited by jsmith-c
xddts    040128 125842 Enclosure Resolution added by cpradera
xddts    040128 125908 Enclosure Previous Merge Build IDs added by cpradera
xddts    040128 125909 R -> M (Merged) by cpradera
batchbug 040129 204510 Priority changed to 8 by ddts
xddts    040201 123529 Enclosure "IPT" edited by jsmith-c
xddts    040204 110814 Cloned from ECSed38651 (OPS_HEG) by jsmith-c
xddts    040204 110816 Parent & Children Links Removed.
xddts    040204 112414 Fields modified by kcarr
xddts    040204 112820 Fields modified by kcarr
xddts    040204 112902 M -> R (Assign-Implement) by kcarr
xddts    040204 131535 Enclosure "Previous Merge Build IDs" deleted by kcarr
xddts    040204 131543 Enclosure "Resolution" deleted by kcarr
xddts    040204 131548 Enclosure "IPT_HISTORY\" deleted by kcarr
xddts    040204 131552 Enclosure "Analysis" deleted by kcarr
xddts    040204 131558 Enclosure "IPT" deleted by kcarr
xddts    040204 131601 Enclosure "Initial Analysis" deleted by kcarr
xddts    040204 131804 Enclosure "Problem" edited by kcarr
xddts    040204 170517 R -> R (Assign-Implement) by cpradera
xddts    040205 133627 Enclosure Resolution added by cpradera
xddts    040205 133650 Enclosure Previous Merge Build IDs added by cpradera
xddts    040205 133650 R -> M (Merged) by cpradera
xddts    040209 095648 Enclosure "IPT" added by jsmith-c
xddts    040209 100848 Enclosure "IPT" edited by jsmith-c
xddts    040209 100931 Enclosure "IPT" edited by jsmith-c
xddts    040209 105045 M -> T (In-Test) by cpradera
webddts  040209 110056 Enclosure "Verification" added by jcorbett
webddts  040209 110057 T -> V (Verified) by jcorbett

```

□

NCR ID: ECSed39385	Status: VERIFIED	Submitted: 040204
NCR Class: OPERATIONS	Project: OPS_HEG	Enclosures: 6

NCR TITLE...

ASTER TIF No Reprojection Meter Difference in TIF and the HDF-EOS images

PROBLEM INFORMATION...

Build Name[*]: Drop 6A.08+
 Test Site[*]: EDC DAAC
 Detection Method[*]: Engineering Test
 Detected-In-Phase[*]: Unit Test
 Test Case ID: n/a

COST ANALYSIS INFORMATION...

Cost[*]: LOW
 Estimated Fix Time(hrs): 16
 Estimated Fix Date(yymmdd): 040204
 Est Num_SLOC: 0
 Revised Fix Time (Hrs): 16

04-0092_ncrs

Machine Name: n/a
Severity (1=Showstopper)[*]: 2
Priority: 018 Priority Date: 200402
High Priority: 018 Mode [*]: Other
Trouble Ticket: n/a
DAAC Trouble Ticket: n/a
Submitter: kcarr
ANALYSIS INFORMATION...
Evaluate Engineer: kcarr
Assigned To: cpradera
Analysis Due Date(yymmdd): 040204

Revised Fix Date (yymmdd): 040204
TO BE FIXED INFORMATION...
Problem type[*]: source code
Recommended change[*]: source code
Implement Due Date (yymmdd): 040204
Eng SW Release Name: TBD
Eng SW Release Date (yymmdd):
Quality of NCR: 1
Workaround Available? N

Page 1/2

NCR Class: OPERATIONS Project: OPS_HEG

MERGE INFORMATION..
Resolution[*]: source code
Resolved by: cpradera
Iteration: Drop 6A.08
Indicate_SLOC[*]: Added
Num_SLOC: 21
Fixing time (hrs): 16
Affect CSCI: HEG
Merge Build Id: M040204005
Documentation affected (Y/N)? N
Fix Date (yymmdd): 040204
Patch Release Name: TBD
Patch Release Date (yymmdd):
TE SW Release Name: TBD
TE SW Release Date (yymmdd):

VERIFICATION INFORMATION...
Test Engineer: cpradera
Verification Due:
Verification results(P/F)? P
Elapsed verification time (hrs): 1
Attachments (Y/N)? N
Ver. Build ID[*]: Drop 6A.08+
Verification Machine: f3ins01
Verification Site[*]: EDF

Page 2/2

***** Problem (Added 040204 by kcarr) *****
Please describe the problem you are experiencing below, including
what you did, what you expected to happen, and what actually happened:

When testing the ASTER GeoTiff No Reprojection product being produced as
part of NCR 38651, EDC found a difference in the meter location of the
same pixel in the TIF and the HDF-EOS images.

Also noted that pixel size varies for the X and Y within a scene, and
all scenes have different values.

***** Analysis (Added 040204 by cpradera) *****
Please describe your Analysis:

Pixel meter locations are off by a few meters.

***** Resolution (Added 040205 by cpradera) *****
Please describe your resolution to this problem:

Pixel meters were rounded off to the nearest integer when
working with ASTER Swath.

***** Previous Merge Build IDs (Added 040205 by cpradera) *****
Please enter any related Merge Build ID(s) information:

1)M040204005

2)M040204006

3)

4)

***** IPT (Modified 040209 by jsmith-c) *****
2/9/04 Pixel meter locations are off by a few meters. Pixel meters were rounded off to the nearest integer when working with ASTER Swath.

***** Verification (Added 040209 by jcorbett) *****
Please describe your verification:

DEV04. Points in both the input hdf file and output tif files were examined. Minimal shifting was noted in ENVI.

***** History *****

xddts 040204 131255 Submitted to OPS_HEG by kcarr
xddts 040204 131439 Enclosure "Problem" added by kcarr
xddts 040204 131455 N -> A (Assign-Eval to cpradera) by kcarr
xddts 040204 170734 Enclosure "Analysis" added by cpradera
xddts 040204 170734 A -> B (Cost-Analyzed) by cpradera
xddts 040204 171054 B -> R (Assign-Implement) by cpradera
batchbug 040204 184011 Priority changed to 18 by ddts
xddts 040205 133832 Enclosure Resolution added by cpradera
xddts 040205 133849 Enclosure Previous Merge Build IDs added by cpradera
xddts 040205 133849 R -> M (Merged) by cpradera
xddts 040209 095858 Enclosure "IPT" added by jsmith-c
xddts 040209 100004 Enclosure "IPT" edited by jsmith-c
xddts 040209 100317 Fields modified by jsmith-c
xddts 040209 100402 Fields modified by jsmith-c
xddts 040209 105120 M -> T (In-Test) by cpradera
webddts 040209 184128 Enclosure "Verification" added by jcorbett
webddts 040209 184128 T -> V (Verified) by jcorbett

□

04-0092_ncrs

NCR ID: ECSed39386
NCR Class: OPERATIONS

Status: VERIFIED
Project: OPS_HEG

Submitted: 040204
Enclosures: 6

NCR TITLE...

Converter cores for ASTER swath HDF-EOS No Reprojection with subsetting

PROBLEM INFORMATION...

Build Name[*]: Drop 6A.08+
Test Site[*]: EDF
Detection Method[*]: Regression Test
Detected-In-Phase[*]: Acceptance Testing
Test Case ID: n/a
Machine Name: n/a
Severity (1=Showstopper)[*]: 2
Priority: 022 Priority Date: 200402
High Priority: 022 Mode [*]: DEV04
Trouble Ticket: n/a
DAAC Trouble Ticket: n/a
Submitter: kcarr

ANALYSIS INFORMATION...

Evaluate Engineer: kcarr
Assigned To: cpradera
Analysis Due Date(yymmdd): 040204

COST ANALYSIS INFORMATION...

Cost[*]: LOW
Estimated Fix Time(hrs): 16
Estimated Fix Date(yymmdd): 040204
Est Num_SLOC: 0
Revised Fix Time (Hrs): 16
Revised Fix Date (yymmdd): 040204

TO BE FIXED INFORMATION...

Problem type[*]: source code
Recommended change[*]: source code
Implement Due Date (yymmdd): 040204
Eng SW Release Name: TBD
Eng SW Release Date (yymmdd):
Quality of NCR: 1
Workaround Available? N

Page 1/2

NCR Class: OPERATIONS

Project: OPS_HEG

MERGE INFORMATION..

Resolution[*]: source code
Resolved by: cpradera
Iteration: Drop 6A.08
Indicate_SLOC[*]: Added
Num_SLOC: 21
Fixing time (hrs): 16
Affect CSCI: HEG
Merge Build ID:
Documentation affected (Y/N)? N
Fix Date (yymmdd): 040205
Patch Release Name: TBD
Patch Release Date (yymmdd):
TE SW Release Name: TBD
TE SW Release Date (yymmdd):

VERIFICATION INFORMATION...

Test Engineer: cpradera
Verification Due:
Verification results(P/F)? P
Elapsed verification time (hrs): 1
Attachments (Y/N)? N
Ver. Build ID[*]: Drop 7
Verification Machine: f3ins01
Verification Site[*]: EDF

Page 2/2

***** Problem (Added 040204 by kcarr) *****

Please describe the problem you are experiencing below, including what you did, what you expected to happen, and what actually happened:

When performing regression testing for NCR 38651 for delivery of Patch_6A08_DPL_HEG.03A, entered the following ASTER swath request via Web Access GUI: spatial subsetting with Format/Projection = HDF-EOS No Reprojection.

"HDF-EOS No Reprojection" is a new GUI option for this patch - it replaces and is equivalent to the previous "No conversion" option.

Also added for this patch are two new parameters passed from the HEG front end to the converters: OUTPUT_PROJECTION_TYPE and OUTPUT_TYPE.

04-0092_ncrs

For this query, the front end passed OUTPUT_PROJECTION_TYPE = NO
REPROJECTION, and OUTPUT_TYPE = HDF-EOS.

Prior to this patch, if the user chose "No conversion" with spatial
subsetting for ASTER swath data, the converter would assume an output
projection type of Geographic, and an output type of HDF-EOS.

***** Analysis (Added 040204 by cpradera) *****
Please describe your Analysis:

swtif should not do no_reprojection when output is to HDF-EOS.

***** Resolution (Added 040205 by cpradera) *****
Please describe your resolution to this problem:

Code modified so that if output is to HDF-EOS data set, then
output projection defaults to Geographic.

***** Previous Merge Build IDs (Added 040205 by cpradera) *****
Please enter any related Merge Build ID(s) information:

1)M040204005

2)M040204006

3)

4)

***** IPT (Modified 040209 by jsmith-c) *****
2/9/04 Swath Tif should not do no_reprojection when output is HDF-EOS.
Code modified to default to Geographic if output is to HDF-EOS.

***** Verification (Added 040209 by jcorbett) *****
Please describe your verification:

Ran in DEV04 with AST_L1B. Converted to Geotiff no reprojection and
subsetting without coring.

***** History *****

xddts 040204 132150 Submitted to OPS_HEG by kcarr
xddts 040204 133156 Enclosure "Problem" added by kcarr

04-0092_ncrs

xddts 040204 133208 N -> A (Assign-Eval to cpradera) by kcarr
 xddts 040204 170900 Enclosure "Analysis" added by cpradera
 xddts 040204 170900 A -> B (Cost-Analyzed) by cpradera
 xddts 040204 171126 B -> R (Assign-Implement) by cpradera
 batchbug 040204 184104 Priority changed to 22 by ddt
 xddts 040205 134014 Enclosure Resolution added by cpradera
 xddts 040205 134029 Enclosure Previous Merge Build IDs added by cpradera
 xddts 040205 134029 R -> M (Merged) by cpradera
 xddts 040209 100532 Enclosure "IPT" added by jsmith-c
 xddts 040209 100648 Enclosure "IPT" edited by jsmith-c
 xddts 040209 105142 M -> T (In-Test) by cpradera
 webddts 040209 111621 Enclosure "Verification" added by jcorbett
 webddts 040209 111621 T -> V (Verified) by jcorbett

□